

## CLAIMS

### What is claimed is:

1. A method to display remaining storage capacity, applicable to a portable storage device, the method comprises of following steps:
  - 5 retrieving a remaining data storage capacity about said portable storage device from a main computer host;  
storing said remaining data storage capacity in a remaining data storage capacity module in said portable storage device; and  
receiving a signal for displaying remaining storage capacity, then accessing said
  - 10 remaining data storage capacity from said remaining data storage module and displaying using a display module of said portable storage device.
2. The method to display remaining storage capacity described in claim 1, wherein said step of retrieving said remaining data storage capacity about said portable storage device from said main computer host also comprises of retrieving said remaining data storage capacity of said portable storage device from a notebook computer and use an USB protocol to transmit said remaining data storage capacity to said portable storage device.
- 15 3. The method to display remaining storage capacity described in claim 1, wherein said step of retrieving said remaining data storage capacity about said portable storage device from said main computer host also comprises of retrieving said remaining data storage capacity of said portable storage device from a desktop computer and use USB protocol to transmit said remaining data storage capacity to said portable storage device.
- 20 4. The method to display remaining storage capacity described in claim 1, wherein said step of retrieving said remaining data storage capacity about said portable storage device from said main computer host also comprises of retrieving said remaining data storage capacity of said portable storage device from a palmtop computer and use USB protocol to transmit said remaining data storage capacity to said portable storage device.
- 25

5. A portable storage device, said portable storage device comprises of a display module to display a remaining data storage capacity, said device comprises of:

an USB module, used to connect to a main host computer to transmit data;

5 a control module, used to receive said main host computer's transmitted data, and store transmitted data in a data storage module in said portable storage device, and used to store said remaining data storage capacity in a remaining data storage capacity module in said portable storage device, also, after receiving display remaining storage capacity signal, control said display module of said portable storage device to display said remaining data storage capacity; and

10 a display key module, used to produce said display remaining storage capacity signal to said control module after receiving user's display remaining storage capacity key command.

6. The portable storage device as described in claim 5, wherein comprises of a power module used to provide power to said control module, said data storage module, said remaining data storage capacity module, said USB module, said display key module and said display module.

7. The portable storage device as described in claim 5, wherein said display module comprises a liquid crystal display screen.

8. The portable storage device as described in claim 5, wherein said main host computer is a notebook computer.

20 9. The portable storage device as described in claim 5, wherein said main host computer is a desktop computer.

10. The portable storage device as described in claim 5, wherein said main host computer is a palmtop computer.